Linux FastBOOT and Qt!
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What is demonstrated

- 2s cold-boot time into Qt application
- Webserver running!
- Running a vanilla kernel without any patches!
- Possible hand-over to a production system
- Boot concept applicable to almost every SOC

Hardware Information

CPU: TI AM335x
Booting from SD Card

What was improved

- Linux is started by the U-Boot SPL
- Optimized kernel config (no code changes!!)

Diagram:

Switch application / trigger switch root (via http)

PC, Smartphone, ...

Router

ARM Target

U-Boot SPL

Linux Kernel

InitRAMFS (Qt Demo, Web-Server, ...)

switch_root (optional)

Production RFS

Source code or detail technical information availability
https://www.linutronix.de